

SUBSTITUTE ABSTRACT

A fixing device includes a heating roller which is made of a magnetic metal, a coil which is made of a plurality of twisted wires, an exciting circuit which applies a high-frequency current to the coil, and a core which is made of a heat resistant resin and is arranged inside the heating roller. The core has two grooves, each of the grooves being formed on a surface of the core and running along a longitudinal direction of the core. Parts of the coil are buried in the grooves such that a distance between the outer surface of the coil wound on the core and the inner surface of the heating roller is constant.